

Gladiator GPB2 Terminal Blocks

Gladiator®
 from AutomationDirect

GPB2-420P1-11F

Features

- Single-pole splitter allows splitting of power main input into several outputs
- Multiple-pole assembling thanks to the interlocking function on each block
- Pre-printed block markers (L1, L2, L3, N, PE, +, -) included
- Allows grouping of several inputs into one output (solar applications)
- Reversible snap-on cover opens in two directions and facilitates identification and wiring
- Space-saving design minimizes panel space requirements
- Fast assembly time
- Modular, touch-proof design eliminates need for bus bars, isolators, fasteners, and protection screens
- Accepts aluminum and copper conductors
- 8 kV rated impulse voltage
- Copper wire temperature 75 °C [167 °F]

Ratings

- 1000 VAC/1500 VDC
- UL Flammability Rating UL 94V-0

Agency Approvals

- UL file # E179129
- UL Flammability Rating UL 94V-0
- EU RoHS Directive 2011/65/EU
- UL 1059
- CSA file #606611

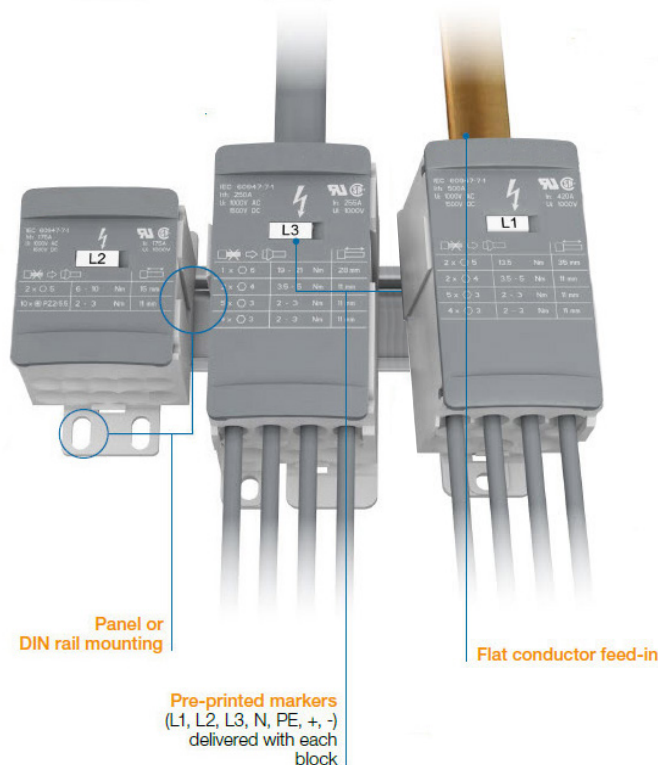
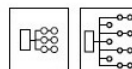


Single pole

GPB2-175P1-10L
 12 connections

GPB2-255P1-11L
 12 connections

Flat conductor

GPB2-250P1-6F and GPB2-420P1-11F
 7 and 12 connections


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Gladiator GPB2 Terminal Blocks Selection Table

Part Number	Price	Type	Maximum Current Rating, IEC (Conductor Size)	Maximum Current Rating, UL (Cross Section)	SCCR	Short Time Withstand Current (IEC Rating I_{cw} , 1s)	Peak Withstand Current	Protection Rating	Weight (lb [g])	Drawing
GPB2-175P1-10L		Single pole	Cu: 175A (70 mm ²) Al: 135A (70 mm ²)	Cu: 175A (2/0 AWG)	100 kA	6000A	30 kA	IP10 NEMA 1	0.44 [200]	PDF
GPB2-255P1-11L		Single pole	Cu: 250A (120 mm ²) Al: 200A (120 mm ²)	Cu: 255A (250 Kcmil)	100 kA	11400A	51 kA	IP10 NEMA 1	0.97 [439]	PDF
GPB2-250P1-6F		Flat conductors	Cu: (250A / Flexible busbar: 6 x 15.5 x 0.8 mm) (208A / Solid busbar: 12 x 4mm, x2)	Cu: (250A / Flexible busbar: 6 x 15.5 x 0.8 mm) (160A / Solid busbar: 12 x 4 mm, x2)	100 kA	11400A	22.8 kA	IP20 NEMA 1	0.26 [119]	PDF
GPB2-420P1-11F		Flat conductors	Cu: 500A (Flexible busbar: 24 x 10 x 1 mm) (Solid busbar: 25 x 5mm, x2)	Cu: 420A (24 x 10 x 1 mm)	100 kA	28800A	43.9 kA	IP20 NEMA 1	1.13 [514]	PDF

Fuses

Fuses					
	Over Current Protection Fuse Required Class/Max Amp Rating				SCCR, RMS Sym A (Single Phase Only)
Part Number	RK1	RK5	J	CC	
<u>GPB2-80P1-4L</u>	100A	30A	110A	30A	100 kA
<u>GPB2-175P1-10L</u>	400A	200A	600A	30A	
<u>GPB2-255P1-11L</u>					
<u>GPB2-420P1-11F</u>					
<u>GPB2-250P1-6F</u>					

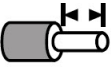
Usage Conditions

Installation Temperature Range	-5 to +40 °C [23 to 104 °F]
Operating Temperature Range	-55 to +110 °C [-67 to +230 °F]

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Gladiator GPB2 Terminal Blocks Wire and Torque Specifications

Part Number		Number of Connections	Size (Ø mm [in])	Wire Type		Wire Stripping Length (mm [in])	Tool (mm [in])	Torque
								
GPB2-175P1-10L	Input	2	11.8 [0.46]	10 to 50 mm ² [8 to 1/0 AWG]	10 to 70 mm ² [6 to 2/0 AWG]	15 [0.71]	 5 [0.20]	6 to 10 N•m [53 to 88 lb•in]
	Output	10	6.4 [0.25]	2.5 to 16 mm ² [14 to 6 AWG]	2.5 to 16 mm ² [14 to 6 AWG]	11 [0.43]	 5.5 [0.22]	2 to 3 N•m [18 to 26.5 lb•in]
GPB2-255P1-11L	Input	1	15.3 [0.60]	35 to 95 mm ² [2 to 3/0 AWG]	35 to 120 mm ² [2 to 250 Kcmil]	28 [1.10]	 5.5 [0.22]	19 to 21 N•m [168 to 185 lb•in]
	Output	2	8.7 [0.34]	2.5 to 25 mm ² [14 to 4 AWG]	2.5 to 35 mm ² [14 to 2 AWG]	11 [0.43]	 4 [0.16]	3.5 to 5 N•m [31 to 44 lb•in]
	Input	5	6.4 [0.25]	2.5 to 16 mm ² [14 to 6 AWG]	2.5 to 16 mm ² [14 to 6 AWG]	11 [0.43]	 3 [0.12]	2 to 3 N•m [18 to 26.5 lb•in]
	Output	4	5.7 [0.22]	2.5 to 10 mm ² [14 to 8 AWG]	2.5 to 10 mm ² [14 to 8 AWG]	11 [0.43]	 3 [0.12]	2 to 3 N•m [18 to 26.5 lb•in]

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Gladiator GPB2 Terminal Blocks (Flat Entry) Wire and Torque Specifications

Part Number		Number of Connections	Size (mm [in])	Wire Type				Wire Stripping Length (mm [in])	Tool (mm [in])	Torque
										
GPB2-250P1-6F	Input	1	15.5 x 7.5 [0.59 x 0.28]		12 x 4mm [8 to 2 AWG]		3 x 9 x 0.8mm to 6 x 15.5 x 0.8mm	15 [0.59]	 5 [0.20]	13.5 N•m [120 lb•in]
	Output	6	6.6 [0.26]		2.5 to 16 mm ² [14 to 6 AWG]		2.5 to 16 mm ² [14 to 6 AWG]	11 [0.43]	 5.5 [0.22]	2 to 3 N•m [18 to 26.5 lb•in]
GPB2-420P1-11F	Input	1	20 x 10.8 [1.02 x 0.43]		12 x 4mm up to (2x) 25 x 5mm		3 x 9 x 0.8mm to 6 x 15.5 x 0.8mm	35 [1.38]	 5 [0.20]	13.5 N•m [119.5 lb•in]
	Output	2	8.69 [0.34]		2.5 to 25 mm ² [14 to 4 AWG]		2.5 to 35 mm ² [14 to 2 AWG]	11 [0.43]	 4 [0.16]	3.5 to 5 N•m [31 to 44 lb•in]
		4	5.7 [0.22]		2.5 to 10 mm ² [14 to 8 AWG]		2.5 to 10 mm ² [14 to 8 AWG]	11 [0.43]	 3 [0.12]	2 to 3 N•m [18 to 26.5 lb•in]
		5	6.59 [0.26]		2.5 to 16 mm ² [14 to 6 AWG]		2.5 to 16 mm ² [14 to 6 AWG]	11 [0.43]	 3 [0.12]	2 to 3 N•m [18 to 26.5 lb•in]

Wiring Specifications

 NOT ALLOWED: Flexible without ferrule (IEC V-K & UL: Class 5/6)	 Flexible with insulated ferrule (IEC V-K & UL: Class 5/6)	 Rigid solid (IEC V-U Class 1, UL solid)	 Rigid stranded (IEC V-R Class 2, UL Class B/C)	 Solid busbar	 Flexible busbar
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**Allen Key****Posidriv
Flat Screwdriver**

Gladiator GPB1 Terminal Blocks

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from AutomationDirect



GPB1-85P1-15S

Features

- Single-pole 7, 15 and 16 connections
- Push-in and spring technology
- Three mounting options: horizontal DIN rail, vertical DIN rail, or panel mount with screws
- Pre-printed block markers (L1, L2, L3, N, PE, +, -, red, blue and green) included
- Increased wiring visibility due to in-line connection and front access
- Hands-free wiring with or without screwdriver
- Compatible with KN-EB4 end brackets
- Built-in voltage test point
- Push-in connections save installation time
- Modular, touch-proof design reduces the need for bus bars, isolators, fasteners, and protection screens
- Copper wire temperature 75 °C [167 °F]

Ratings

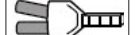
- Up to 130A, 1000 VAC/1500 VDC
- UL Flammability Rating UL 94V-0

Agency Approvals

- UL file # E179129
- EU RoHS Directive 2011/65/EU
- UL 1059
- CSA file # 606611



Gladiator GPB1 Terminal Blocks Selection Table

Part Number	Price	Rated Current and Voltage (IEC)	Rated Current and Voltage (UL)	Rated Cross Section								Protection Rating	Weight (lb [g])	Drawing
														
				Flexible Without Ferrule		Flexible With Insulated Ferrule		Flexible With Twin Ferrule		Rigid Solid or Stranded				
				#	mm ²	mm ²	AWG	mm ²	AWG	mm ²	AWG			
GPB1-85P1-7S		76A 1000 VAC 1500 VDC	85A 1000V	3	1.5-16	1.5-16	16-6	1.5-6	16-10	1.5-25	16-4	IP20	0.15 [68]	PDF
				4	1.5-10	1.5-10	16-8	1.5-4	16-12	1.5-16	16-6			
GPB1-85P1-15S		76A 1000 VAC 1500 VDC	85A 1000V	3	1.5-16	1.5-16	16-6	1.5-6	16-10	1.5-25	16-4	IP20	0.30 [136.1]	PDF
				12	1.5-10	1.5-10	16-8	1.5-4	16-12	1.5-16	16-6			

* The 2x10 35mm² connections (located on the left side) utilize screw clamp technology.

Gladiator GPB1 Terminal Blocks Mounting and Torque

Rail		TH 35-7.5 TH 35-15
Wire Stripping Length		Screw connection: 17mm [0.67in]
		PI-Spring connection: 15mm [0.591in]
Tool		
For Screw Connection		Allen key Ø 4mm Ø 0.157in
For PI-Spring Connection (Tool for installation and removal of wires without ferrule)		Flat screwdriver Ø 4mm Ø 0.157in
Torque		
25-35 mm² (4-1 AWG)		3.5–4 N•m [31–35.4 lb•in]
16 mm² (6 AWG)		3–3.5 N•m [26.5–35.4 lb•in]
10 mm² (8 AWG)		3–3.5 N•m [26.5–35.4 lb•in]

Usage Conditions

Installation Temperature Range	-5 to +40 °C [23 to 104 °F]
Operating Temperature Range	-55 to +110 °C [-67 to +230 °F]

Fuses

Over Current Protection Fuse Required Class/Max Amp Rating				SCCR, RMS Sym A (Single Phase Only)
RK1	RK5	J	CC	
200A	60A	200A	30A	100 kA